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1 [Viewpoint: The Internet patent land grab](#)

Tim O'Reilly

 June 2000 **Communications of the ACM**, Volume 43 Issue 6

 Full text available: [pdf\(236.47 KB\)](#)
[html\(13.46 KB\)](#)

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2 [Infoseek's experiences searching the internet](#)

Steven Kirsch

 September 1998 **ACM SIGIR Forum**, Volume 32 Issue 2

 Full text available: [pdf\(315.41 KB\)](#)

 Additional Information: [full citation](#), [citations](#), [index terms](#)

3 [Viewpoint: Bounty hunting in the patent base](#)

Bob Besaha

 March 2003 **Communications of the ACM**, Volume 46 Issue 3

 Full text available: [pdf\(55.11 KB\)](#)
[html\(13.09 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Like Robin Hood and his band of merry men, patent bounty hunters and software agent communities may one day patrol the patent kingdom.

4 [Fast address lookups using controlled prefix expansion](#)

V. Srinivasan, G. Varghese

 February 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 1

 Full text available: [pdf\(258.60 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Internet (IP) address lookup is a major bottleneck in high-performance routers. IP address lookup is challenging because it requires a longest matching prefix lookup. It is compounded by increasing routing table sizes, increased traffic, higher-speed links, and the migration to 128-bit IPv6 addresses. We describe how IP lookups and updates can be made faster using a set of transformation techniques. Our main technique, controlled prefix expansion, transf ...

Keywords: Internet address lookup, binary search on levels, controlled prefix expansion,

09/117,529

expanded tries, longest-prefix match, multibit tries, router preformance

5 17,500 software patents to issue in 1998

Greg Aharonian

May 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 3

Full text available:  pdf(310.61 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Based on an analysis of 3336 software patents issued circa January/August of 1998, I have put together the following statistics. Simply put, in 1998 and 1999 the PTO will issue 40,000 software patents, ten times the amount issued six years earlier in 1992 and 1993, without ten times the resources.

6 Making global digital libraries work: collection services, connectivity regions, and collection views

Carl Lagoze, David Fielding, Sandra Payette

May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan

August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3

Full text available:  pdf(281.37 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

8 A patent search and classification system

Leah S. Larkey

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Full text available:  pdf(164.37 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: applications, classification, digital libraries, information retrieval, patents, systems, text categorization

9 Cluster-based language models for distributed retrieval

Jinxi Xu, W. Bruce Croft


August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  pdf(212.26 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Searching the Web

August 2001

ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1

Full text available:  [pdf\(319.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introducing ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

11 When everything is searchable

Eric A. Brewer


March 2001 **Communications of the ACM**, Volume 44 Issue 3

Full text available:  [pdf\(71.40 KB\)](#) Additional Information: [full citation](#), [index terms](#)

12 The future of Internet search (keynote address)

Steve Kirsch

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(40.33 KB\)](#) Additional Information: [full citation](#), [index terms](#)

13 Electronic commerce: a half-empty glass?

Sasa Dekleva

June 2000 **Communications of the AIS**

Full text available:  [pdf\(343.49 KB\)](#) Additional Information: [full citation](#), [references](#)

14 upFRONT

May 2000 **Linux Journal**

Full text available:  [html\(32.79 KB\)](#) Additional Information: [full citation](#), [index terms](#)

15 Tension and synergism between standards and intellectual property

Oliver R. Smoot

June 1995 **StandardView**, Volume 3 Issue 2

Full text available:  [pdf\(144.75 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#), [review](#)

16 Faster IP lookups using controlled prefix expansion

V. Srinivasan, George Varghese

June 1998 **ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems**, Volume 26 Issue 1

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Internet (IP) address lookup is a major bottleneck in high performance routers. IP address lookup is challenging because it requires a *longest matching prefix* lookup. It is compounded by increasing routing table sizes, increased traffic, higher speed links, and the migration to 128 bit IPv6 addresses. We describe how IP lookups can be made faster using a new technique called *controlled prefix expansion*. Controlled prefix expansion, together with optimization techniques based on dyn ...

17 [A semisupervised learning method to merge search engine results](#)

Luo Si, Jamie Callan

October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Full text available:  pdf(463.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The proliferation of searchable text databases on local area networks and the Internet causes the problem of finding information that may be distributed among many disjoint text databases (*distributed information retrieval*). How to merge the results returned by selected databases is an important subproblem of the distributed information retrieval task. Previous research assumed that either resource providers cooperate to provide normalizing statistics or search clients download all retrieve ...

Keywords: Distributed information retrieval, resource ranking, resource selection, results merging, semisupervised learning method, server selection

18 [Reusable software components](#)

Trudy Levine

June 2000 **ACM SIGAda Ada Letters**, Volume XX Issue 2

Full text available:  pdf(638.38 KB) Additional Information: [full citation](#), [index terms](#)

19 [Information retrieval on the web](#)

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available:  pdf(213.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

20 [Collection selection and results merging with topically organized U.S. patents and TREC data](#)

Leah S. Larkey, Margaret E. Connell, Jamie Callan

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available:  pdf(170.85 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)




Keywords: collection selection, information retrieval, topical organization

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